



AIRS Science Team Meeting Agenda
April 25-27, 2018 at Caltech, Pasadena, Ca

Wednesday, April 25, 2018

Light Morning Refreshments: 8:00 - 8:30			
Name	Presentation	Affiliation	Time
Session 1: Introduction (Chair: Joao Teixeira)			
Joao Teixeira	Introduction and Summary of Current Activities	NASA JPL	8:30 AM
Ruth Monarrez	S-NPP Sounder SIPS Highlights	NASA JPL	8:54 AM
Tsengdar Lee	Perspective from HQ	NASA HQ	9:18 AM
Session 2: Weather and Climate (Chair: Eric Fetzer)			
Eric Wilcox	Studies of solar absorption and semi-direct aerosol effect using AIRS and other NASA satellite products	DRI	9:42 AM
Brian Kahn	Cloud trends from 15 years of Atmospheric Infrared Sounder observations	NASA JPL	10:06 AM
AM Break			10:30 AM
Ryan Kramer	Estimating feedbacks in the A-Train record using observational-based radiative kernels	Rosenstiel School of Marine and Atmospheric Science University of Miami	11:00 AM
Gregory Elsaesser	Planned Satellite Analyses and CMIP6 Climate Model Evaluation of Convection and Moisture Variations on Sub-Daily to Intraseasonal Timescales	NASA GISS/Columbia University	11:24 AM
Derek Posselt	Quantifying the Environmental Sensitivity of Deep Moist Convection using Ensembles of Cloud Resolving Simulations	NASA JPL	11:48 AM
Larrabee Strow	A Proposed AIRS+CrIS Radiance Product for Long-Term Continuity	UMBC	12:12 PM
Peter Kalmus	Trajectory-enhanced AIRS observations of environmental factors leading to tornadogenesis	NASA JPL	12:36 PM
Lunch			1:00 PM
Baijun Tian	AIRS Obs4MIPs V2 dataset	NASA JPL	2:00 PM
Chris Wilson	Spectral sensitivity to changes in Boundary Layer Water Vapor Using MAGIC Profiles	NASA JPL	2:24 PM
George Aumann	15 years of AIRS DCC data and the widening of the ITCZ	NASA JPL	2:48 PM
PM Break			3:12 PM
Decadal Survey Discussion: 3:30 - 6:00			
Adjourn			6:00 PM
Dinner - TBD			



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Thursday, April 26, 2018

Light Morning Refreshments: 8:00 - 8:30

Name	Presentation	Affiliation	Time
Session 3: Composition (Chair: Vivienne Payne)			
Evan Fishbein	Methodology to validate AIRS ozone hole observations	NASA JPL	8:30 AM
Susan Kulawik	Single footprint CH4 retrievals using the MUSES retrieval system	Bay Area Environmental Research Institute	8:54 AM
John Worden	Retrieval, characterization, and initial results of the isotopic composition of water from AIRS 8 micron measurements	NASA JPL	9:18 AM
Elva Kuai	Benchmarking 9.6- μ m ozone band top-of-atmosphere (TOA) flux in chemistry-climate models using satellite instantaneous radiative kernels (IRK) products	JIFRESSE	9:42 AM
Kevin Bowman (TBD)	Tropospheric Ozone and Carbon Monoxide Profiles from the Synergic Observations of Afternoon Satellites	NASA JPL	10:06 AM
AM Break			10:30 AM
Vivienne Payne	Evaluation of sounder composition products	NASA JPL	11:00 AM
Session 4: Retrievals and Validation (Chair: Bjorn Lambrigtsen)			
Chris Barnet	Status and results from CLIMCAPS-SNPP and CLIMCAPS-Aqua	STC	11:24 AM
Bill Irion	Progress on Single-Footprint Retrievals from AIRS	NASA JPL	11:48 AM
Sergio DeSouza-Machado	Single Footprint Retrievals: More Progress	UMBC	12:12 PM
Xu Liu	Fusion of AIRS/AMSU and CrIS/ATMS Observations via Radiometric Consistent Climate Fingerprinting	NASA LARC	12:36 PM
Lunch			1:00 PM
Bjorn Lambrigtsen	Strategy for testing, verifying and validating sounder data at JPL	NASA JPL	2:00 PM
Sun Wong	Validation of Pre-V7 AIRS and Neural Network Temperature in the PBL against the IGRA Radiosondes	NASA JPL	2:24 PM
Qing Yue	The Current Status of the AIRS V7 Retrieval Product Testing	NASA JPL	2:48 PM
Eric Fetzer	Plans for a multidecadal satellite record of water vapor, temperature and clouds	NASA JPL	3:12 PM
Lei Huang	Assessing uncertainties of 3D Atmospheric Motion Vectors (AMVs) retrievals from water vapor feature tracking	NASA JPL	3:36 PM
PM Break			4:00 PM
Peter Kalmus	Spatial Statistical Data Fusion of AIRS and CrIMSS Near Surface Temperature	NASA JPL	4:24 PM
Hai Nguyen	Study of generalizability of AIRS-MAGIC comparison to the subtropical ocean using self-organizing maps	NASA JPL	4:48 PM
Jonathan Hobbs	Simulation-Based Uncertainty Quantification for the AIRS Level 2 Retrieval	NASA JPL	5:12 PM
Adam Milstein	Neural Networks	MIT Lincoln Laboratory	5:36 PM
Adjourn			6:00 PM



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Friday, April 27, 2018

Light Morning Refreshments: 8:00 - 8:30			
Name	Presentation	Affiliation	Time
Session 5: Applications (Chair: Sharon Ray)			
Sharon Ray	AIRS Applications and More	NASA JPL	8:30 AM
Alireza Farahmand	Utilizing AIRS Vapor Pressure Deficit and Relative Humidity for the study of hydrologic extremes	NASA JPL	8:54 AM
Heidar Thrastarson	Predicting the Influenza Season Using AIRS Data	NASA JPL	9:18 AM
Session 2: Weather & Climate (Chair: Eric Fetzer) CONTINUED FROM FIRST DAY			
Ivy Tan	Investigating the extratropical cloud optical depth feedback with MODIS, AIRS, CERES and AMS	NASA GSFC	9:42 AM
AM Break			10:06 AM
Session 6: Operations and Calibration (Chair: Steve Broberg)			
Larrabee Strow	Connecting AIRS and CrIS: Radiometric, Spectral, and Spatial Results	UMBC	10:30 AM
Evan Manning	netCDF4 files for AIRS and CrIMSS	NASA JPL	10:54 AM
William Mathews	AIRS Operations Overview	NASA JPL	11:18 AM
Steve Broberg	AIRS Calibration Status	NASA JPL	11:42 AM
Tom Pagano	AIRS L1b radiometric calibration and accuracy update	NASA JPL	12:06 PM
Validation Discussion: 12:30 - 1:00 PM			
Adjourn			1:00 PM